COGENT SYSTEMS

Beyond Comparison™

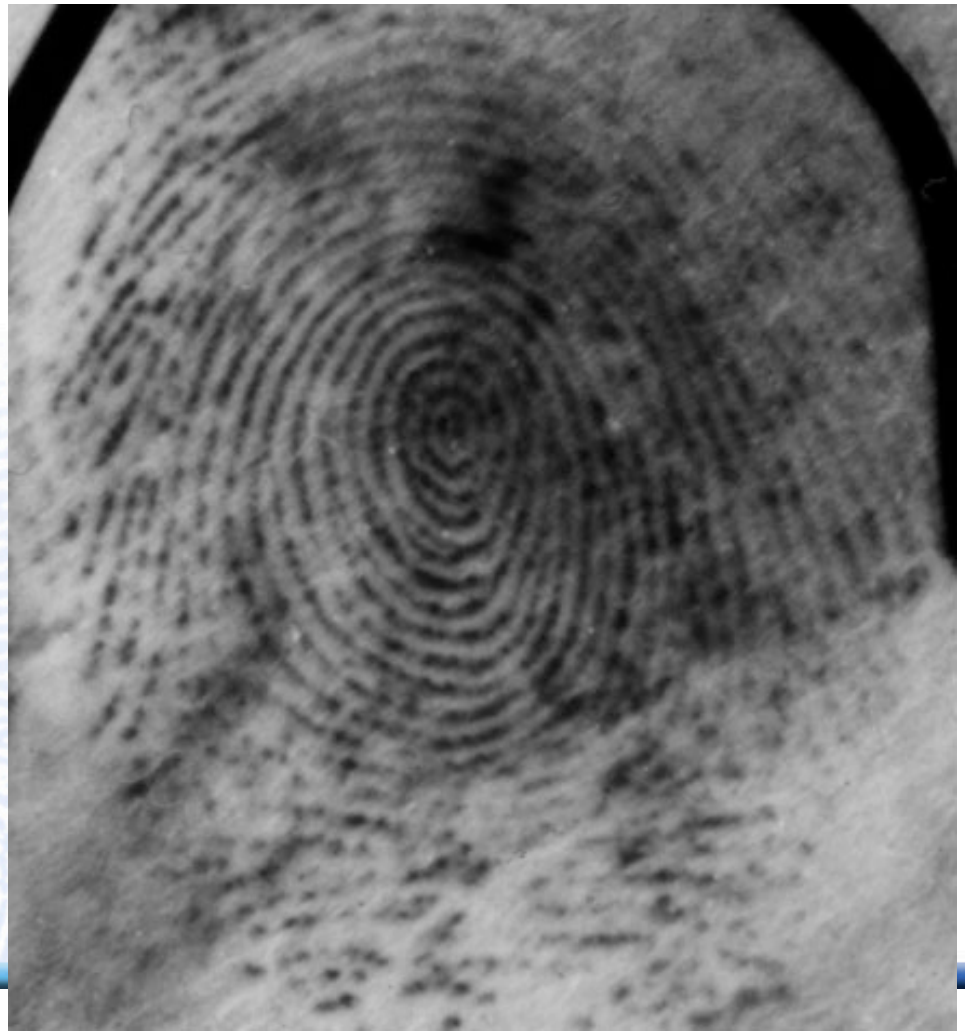
NIST Latent Fingerprint Workshop

Tom Hopper
thopper@cogentsystems.com

1a Image-only Latent Matching

COGENT SYSTEMS

- Examiner and computer have complimentary capabilities



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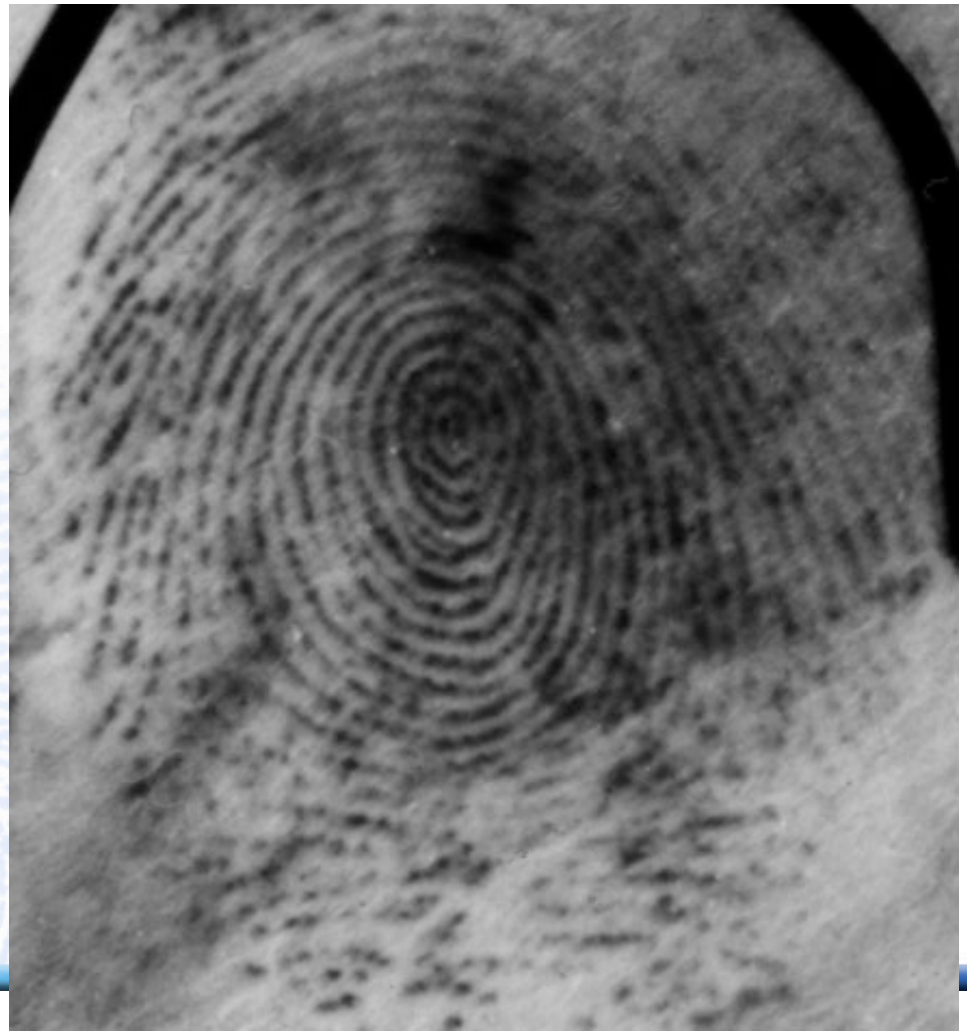
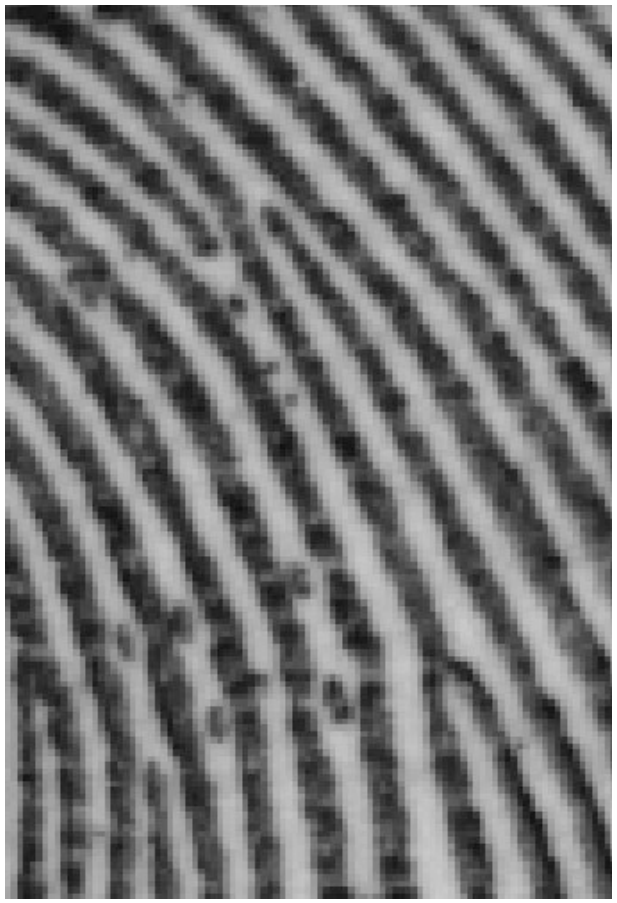




1a Image-only Latent Matching

COGENT SYSTEMS

- Search should always include image
  - Storage and bandwidth are less of a concern
- Examiner selects range of features for inclusion
  - Image quality
  - Case characteristics

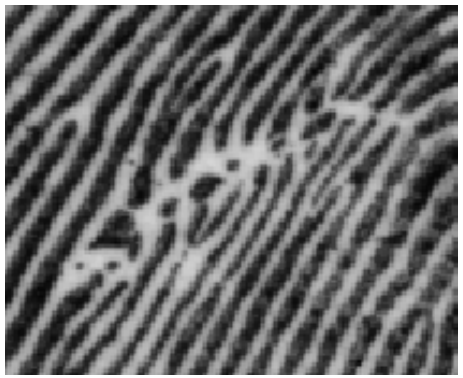
2a CDEFFS Specification

COGENT SYSTEMS

Searching Cogent CAFIS:

- ANSI/NIST/EBTS search with image plus one of:
  - IAFIS feature set
  - EFFS minutiae (9.331) + distinctive area (9.324) + …
- Return candidates in EBTS/SRL format

- Distinctive Area (9.324)
  - Discriminating/unique Detail
  - Third Level Detail
  - Texture Matching



2c How to Test EFFS

COGENT SYSTEMS

To get a return on investment (viable interoperability)

Provide actionable feedback (test images) to participants